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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/578,112

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Norbert Friese

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4661

26646

7590

02/12/2008

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EXAMINER

IMAS, VLADIMIR

ART UNIT

PAPER NUMBER

2839

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/578,112	<b>Applicant(s)</b> FRIESE ET AL.	
	<b>Examiner</b> VLADIMIR IMAS	<b>Art Unit</b> 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 12-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 12-18, 20 – 22 and 24 - 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Derenthal (US 6,817,896).

Regarding claim 12, Derenthal, fig. 1-4, discloses a monopole coaxial cable 40, comprising: a core 42; a dielectric 44 enclosing the core; an electrically conductive shield 46, 48 enclosing the dielectric, the shield including a metal braid 48 and an electrically conductive foil 46; a jacket 52 enclosing the shield; and a plug connector including a contact sleeve 36, a segment 28 of the sleeve electrically conductively contacting the shield and including a circumferential cutting edge; wherein the sleeve is arranged so that the segment encloses the dielectric and is enclosed by the shield [Figure 3], an inner surface of the segment slid onto an outer surface of the dielectric to widen the jacket in a region of the segment, the cutting edge arranged between the dielectric and the foil; and wherein the sleeve is mechanically connected to the jacket by an extrusion coat 18 of an insulating material [column 3, line 22], the extrusion coat arranged as a strain relief between the segment and the shield.

Regarding claim 13, Derenthal discloses the extrusion coat adheres to the sleeve and to the jacket.

Regarding claim 14, Derenthal discloses the sleeve is a unitary piece.

Regarding claim 15, Derenthal discloses an area of an outer surface of the segment is roughened (having an annular lip).

Regarding claim 16, Derenthal discloses an outer contour of the extrusion coat includes, in locations offset in an axially parallel direction, different distances with respect to the core to form-lockingly transmit forces having an axially parallel directional component onto a housing of a secondary lock mechanism.

Regarding claim 17, Derenthal discloses a method for manufacturing a monopole coaxial cable 40 including a dielectric 44, a shield 46, 48 that includes a metal braid 48 and an electrically conductive foil 46, and a jacket 52 surrounding the shield, and including a plug connector arranged at one end of the coaxial cable, comprising: inserting a contact sleeve 36, including a segment 28 having a circumferential cutting edge, in an axially parallel direction between the foil and the dielectric, an inner surface of the segment sliding on an outer surface of the dielectric to widen the jacket in a region of the segment, an outside of the segment in a region of the cutting edge sliding along the foil, the segment enclosing the dielectric and enclosed by the shield, the segment electrically contacting the shield; and extrusion 18 coating the jacket and a portion of the sleeve with an insulating material to fix the sleeve relative to the shield as a strain relief.

Regarding claim 18, Derenthal discloses step comprising cutting the shield and the jacket to length before the inserting step so that the dielectric protrudes with respect to the shield and the jacket.

Regarding claim 20, Derenthal discloses the metal braid of the shield encloses the foil.

Regarding claim 21, Derenthal discloses the cutting edge is arranged between the dielectric on an inside of the cutting edge and the metal braid and foil on an outside of the cutting edge.

Regarding claim 22, Derenthal discloses the segment is enclosed by the metal braid and the foil of the shield.

Regarding claim 24, Derenthal discloses the metal braid of the shield encloses the foil.

Regarding claim 25, Derenthal discloses after the inserting step, the cutting edge is arranged between the dielectric on an inside of the cutting edge and the metal braid and foil on an outside of the cutting edge.

Regarding claim 26, Derenthal discloses the segment is enclosed by the metal braid and the foil of the shield.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 19, 23 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derenthal in view of McMills et al. (5,127,853).

Regarding claims 19, 23 and 27, Derenthal discloses all the limitations except the extrusion coating is performed with an injection molding process. McMills et al., column 13, lines 28 – 40, discloses the extrusion coating is performed with an injection molding process. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to provide Derenthal's connector with McMills's et al. extrusion coating is performed with an injection molding process to provide the coaxial cables may be robust and of high quality.

### ***Response to Arguments***

5. Applicant's arguments, see REMARKS, filed on December 13, 2007, with respect to the rejection(s) of claim(s) 12 - 19 under McMills et al. (5,127,853) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Derenthal (US 6,817,896) and McMills et al. (5,127,853).

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VLADIMIR IMAS whose telephone number is (571)272-8288. The examiner can normally be reached on 8:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T. Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. I./  
Examiner, Art Unit 2839  
2/5/2008